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1. b: Scanning Probe Microscopy (SPM)

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

Scanning probe microscopy is vital to the advancement of nanoscale and energy science, and is used in numerous materials research projects and facilities funded by the Department. Grant applications are sought to develop: New generations of SPM platforms capable of operation in the functional gas atmospheres and broad temperature-pressure ranges, functional SPM probes, sample holders-cells (incl ...

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2. c: Other

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above.

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3. 6: INSTRUMENTATION AND TOOLS FOR MATERIALS RESEARCH USING NEUTRON SCATTERING

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

As a unique and increasingly utilized research tool, neutron scattering makes invaluable contributions to the physical, chemical, and nanostructured materials sciences. The Department of Energy supports neutron scattering and spectroscopy facilities at neutron sources where users conduct state-of-the-art materials research. Their experiments are enabled by the convergence of a range of instrumen ...

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4. b: Advanced Optical Components

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

Develop novel or improved optical components for use in neutron scattering instruments (References 4-6). Such components include, neutron focusing optics, neutron guides, neutron lenses, neutron polarization devices including 3He polarizing filters, radio-frequency flippers, and Meissner shields for the current and future neutron scattering facilities using time-of-flight techniques.

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5. c: Advanced Sample Environment

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

Develop instrumentation and techniques for advanced sample environment (Reference 7, 8) for neutron scattering studies. These environments should simulate conditions relevant to energy-related materials and should provide a novel means of achieving controlled chemical and gaseous environment and extreme sample conditions of temperature, pressure, electric and magnetic fields (or combinations ther ...

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6. d: Other

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above.

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7. 7: INSTRUMENTATION FOR ADVANCED CHEMICAL IMAGING

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

The Department of Energy seeks to advance chemical imaging technologies that facilitate fundamental research to understand, predict, and ultimately control matter and energy at the electronic, atomic, and molecular levels. The Department is particularly interested in forefront advances in imaging techniques that combine molecular-scale spatial resolution and ultrafast temporal resolution to explo ...

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8. b: Time-Resolved Chemical Information from Hybrid Probe Microscopys

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

Probe microscopy instruments (including AFM and STM) have been developed that offer spatial resolution of molecules and even chemical bonds. While probe-based measurements alone do not typically offer the desired chemical information on molecular timescales, methods that take advantage of electromagnetic interactions or sampling with probe tips have been demonstrated. Grant applications are soug ...

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9. c: Other

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above.

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10. 8: INSTRUMENTATION FOR ULTRAFAST X-RAY SCIENCE

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

The Office of Basic Energy Sciences (BES), within the DOEs Office of Science, seeks to advance the state of the art and application of ultrafast x-ray technology, which is a key enabler for research conducted at current and future user facilities, including synchrotron radiation and free electron lasers, as well as for laboratory-based research.

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